

PATENT
450100-02862AMENDMENTS TO THE CLAIMS

Claim 1. (currently amended) A voicesspeech processing device built into a robot, said voicesspeech processing device comprising:

voicesspeech processing means for processing a voicesspeech input including extracting control pitch information or phonemics information; and

control means for controlling voicesspeech processing by said voicesspeech processing means, based on a state of said robot; wherein the state is determined by an action, an emotion state, and an instinct state of the robot;

wherein said emotion and instinct states are determined on the basis of values corresponding to a plurality of states of an emotion model and an instinct model, respectively; wherein the value corresponding to each state within the emotion model and within the instinct model are linked in a mutually stimulating manner and changed based on said control pitch information or said phonemics information;

wherein said voicesspeech processing means comprises voicesspeech recognizing means for recognizing the voicesspeech input;

and wherein said robot takes actions corresponding to a reliability of the voicesspeech recognition results output from said voicesspeech recognizing means, or the emotion state of said robot is changed based on said reliability.

Claim 2. (canceled)

Claim 3. (currently amended) The voicesspeech processing device according to Claim 1, wherein said voicesspeech processing means comprises voicesspeech synthesizing means

PATENT
450100-02862

for performing voicesspeech synthesizing processing and outputting synthesized sound;

and wherein said control means control the voicesspeech synthesizing processing by said voicesspeech synthesizing means, based on the state of said robot.

Claim 4. (currently amended) The voicesspeech processing device according to Claim 3, wherein said control means control phonemics information and pitch information output by said voicesspeech synthesizing means.

Claim 5. (currently amended) The voicesspeech processing device according to Claim 3, wherein said control means control the speech speed or volume of synthesized sound output by said voicesspeech synthesizing means.

Claims 6-7. (canceled)

Claim 8. (currently amended) The voicesspeech processing device according to Claim 1, wherein said control means recognizes the action which said robot is taking, and controls voicesspeech processing by said voicesspeech processing means based on the load regarding that action.

Claim 9. (currently amended) The voicesspeech processing device according to Claim 8, wherein said robot takes actions corresponding to resources which can be appropriated to voicesspeech processing by said voicesspeech processing means.

PATENT
450100-02862

Claim 10. (currently amended) A voicesspeech processing method for a voicesspeech processing device built into a robot, said method comprising:

a voicesspeech processing step for processing a voicesspeech input including extracting control pitch information or phonemics information; and

a control step for controlling voicesspeech processing in said voicesspeech processing step, based on the state of said robot; wherein the state is determined by an action, an emotion state, and an instinct state of the robot;

wherein said emotion and instinct states are determined on the basis of values corresponding to a plurality of states of an emotion model and an instinct model, respectively; wherein the value corresponding to each state within the emotion model and within the instinct model are linked in a mutually stimulating manner and changed based on said control pitch information or said phonemics information;

wherein said voicesspeech processing step performs a voicesspeech recognizing step of recognizing the voicesspeech input;

and wherein said robot takes actions corresponding to a reliability of the voicesspeech recognition results output from said voicesspeech recognizing step, or the emotion state of said robot is changed based on said reliability.

Claim 11. (currently amended) A recording medium recording programs to be executed by a computer, for causing a robot to perform voicesspeech processing, said program comprising:

a voicesspeech processing step for processing a voicesspeech input including extracting control pitch information or phonemics information; and

PATENT
450100-02862

a control step for controlling ~~voicesspeech~~ processing in said ~~voicesspeech~~ processing step, based on the state of said robot; wherein the state is determined by an action, an emotion state, and an instinct state of the robot;

wherein said emotion and instinct states are determined on the basis of values corresponding to a plurality of states of an emotion model and an instinct model, respectively; wherein the value corresponding to each state within the emotion model and within the instinct model are linked in a mutually stimulating manner and changed based on said control pitch information or said phonemics information;

wherein said ~~voicesspeech~~ processing step performs a ~~voicesspeech~~ recognizing step of recognizing the ~~voicesspeech~~ input;

and wherein said robot takes actions corresponding to a reliability of the ~~voicesspeech~~ recognition results output from said ~~voicesspeech~~ recognizing step, or the emotion state of said robot is changed based on said reliability.